### AMALGAMATED WIRELESS VALVE CO. PTY. LTD.

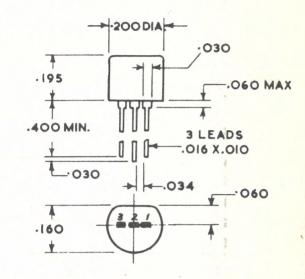
AS148 BC108:BC148
AS149 BC109: BC149

note Equiret to:



The AS148 and AS149 are n-p-n silicon planar epitaxial transistors for general purpose use in audio and switching circuits. The AS149 is a low-noise high gain unit. These units are in epoxy packages.

#### DIMENSIONAL OUTLINE

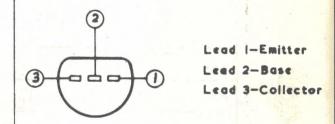


Dimensions in Inches

# ABSOLUTE MAXIMUM RATINGS

Collector-base voltage = 20 volts
Collector-emitter voltage = 20 volts
Emitter-base voltage = 5 volts
Emitter current = 100mA

#### TERMINAL DIAGRAM



# THERMAL RATINGS

Dissipation in an ambient temperature up to  $25^{\circ}\text{C}$  ----- 300mW max. Derate linearly to zero at  $135^{\circ}\text{C}$ .

During soldering lead temperature must not exceed  $255^{\circ}\text{C}$  for 10 secs. max. within 1/16" of can.

Storage temperature  $-25^{\circ}\text{C}$  to  $135^{\circ}\text{C}$ .

PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
I <sub>CBO</sub>	V <sub>CB</sub> = 20V	a EHI	Ch. H	15	nA
I <sub>EBO</sub>	V <sub>EB</sub> = 5V ban orbus	1 526	5301	100	μА
V <sub>EBF</sub>	V <sub>CB</sub> = 20V	2.84	tuan	1	Vive
VCEO	I <sub>C</sub> = 2mA	20			V
V <sub>CE(sat.)</sub>	$I_C = 10 \text{ mA}, I_B = 1 \text{ mA}$			.25	٧
f <sub>T</sub>	$V_{CE} = 5V$ , $I_{C} = 0.5mA$		85		MHz
f <sub>T</sub>	$V_{CE} = 5V$ , $I_{C} = 10mA$		300		MHz
C <sub>b</sub> 'c	$V_{CB} = 5V$ , $I_{E} = 0$		2.5		pF
	AS148				
IB	$V_{CE} = 5V$ , $I_{E} = 10\mu A$		85	250	nA
I <sub>B</sub>	V <sub>CE</sub> - 5V, I <sub>E</sub> - 2mA		10	18.5	μА
and the same					
	AS149				
IB	$V_{CE} = 5V$ , $I_{E} = 10\mu A$	1 Fey	artir	100	nA
I <sub>B</sub>	$V_{CE} = 5V$ , $I_{E} = 2mA$	994	lov	9.6	μА
NF	$V_{CE} = 5V$ , $I_{C} = 0.2mA$				2/37-380
	$\Delta f = 30Hz - 15kHz$ , $R_s = 2K\Omega$			4	dB
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